

# **Methods and Apparatus for Transforming Sequential Logic Designs into Equivalent Combinational Logic**

## **Abstract of Invention**

**[0074]** Disclosed are novel methods and apparatus for transforming sequential logic designs into equivalent combinational logic. In an embodiment of the present invention, a design method for transforming sequential logic designs into equivalent combinational logic is disclosed. The design method includes: simulating each stage of a clocking sequence to produce simulation values; saving the simulation values; and performing a plurality of backward logic traces based on the saved simulation values to provide an equivalent combinational logic representation of a sequential logic design.